

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
17 February 2005 (17.02.2005)

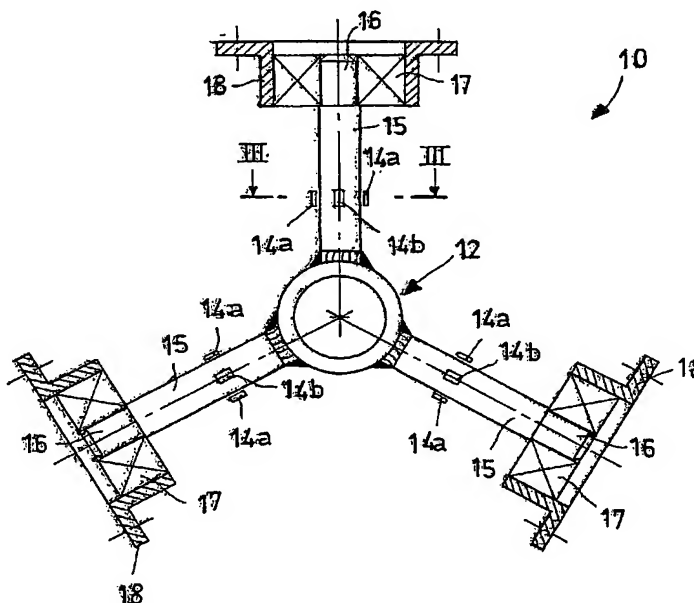
PCT

(10) International Publication Number  
**WO 2005/015146 A1**

- (51) International Patent Classification<sup>7</sup>: **G01L 5/16**, (74) Agents: **DE GREGORI, Antonella et al.**; Ing. Barzano' & Zanardo Milano S.p.A., Via Borgonuovo 10, I-20121 Milan (IT).
- (21) International Application Number: **PCT/EP2004/008247**
- (22) International Filing Date: **20 July 2004 (20.07.2004)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
**MI2003A 001500** **22 July 2003 (22.07.2003)** **IT**
- (71) Applicant (for all designated States except US): **PO-LITECNICO DI MILANO [IT/IT]**; Piazza Leonardo da Vinci, 32, I-20133 Milan (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **MASTINU, Gianpiero [IT/IT]**; Via della Libertà 72, I-22012 Cernobbio (IT). **GOBBI, Massimiliano [IT/IT]**; Via Civardi 22, I-27049 Stradella (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **DEVICE AND METHOD FOR MEASURING FORCES AND MOMENTS**



(57) Abstract: A device for measuring forces and moments acting on a body comprises a measuring structure (12) made up of one or more elements and provided with a plurality of connection elements or bindings (17, 18, 37) for connecting the elements of the structure (12) and/or a body (11) the stress of which one wishes to measure, such a structure (12) being statically determined or else statically non determined, such a structure (12) also being equipped with means for measuring (14), in one or more locations, the six stress magnitudes from which the force vector and moment vector acting on the body (11) can be worked out mathematically.



**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*